

REMARKS

Reconsideration and the timely allowance of the pending claims, in view of the following remarks, are respectfully requested.

Claims 1-20 are currently pending. By this Amendment, claims 1-6, 9-14, 16-18 and 20 have been amended to provide a clearer presentation of the claimed subject matter. Applicant has amended the title to correct a typographical error. Applicant has amended the specification and claims to include the term “logogram” and recite a “portion” of the logogram. Support for the use of the term “logogram” and the reciting of a “portion” of the logogram is fully supported by the drawings to the specification and is not new matter. The illustration of Chinese symbols in Figures 5-8 provides full disclosure for the use of the word “logogram.” A logogram is defined as a symbol used to represent an entire word. The Chinese symbols in Figures 5-8 are by definition logograms, which differ from the alphanumeric characters of the English alphabet whose individual symbols represent sounds that form words when strung together. Similarly, Figures 5-8 each show a single Chinese symbol that has a part that is darkened in and a part that is not darkened in. The part of the Chinese symbol that is darkened in is recognized from the handwritten input. Thus, as these Figures show that a part of the Chinese symbol is recognized, these Figures provide full support for the description of a “portion” of the logogram. Thus, the Figures provide full support for these terms and the use of the terms do not constitute new matter. No new matter is therefore added by these amendments. Therefore, claims 1-20 remain pending, of which claims 1, 6, 12, 17, and 20 are independent claims.

REJECTIONS UNDER §102(e) & §103(a):

Each of the independent claims recites, *inter alia*, receiving a vocal signal representing an object logogram, generating a logogram array having a plurality of candidate logograms, displaying the logogram array, receiving an input handwriting signal representing a portion of the object logogram, and extracting a most coincidental candidate logogram from the array of logograms corresponding to the portion.

A logogram is a single symbol which represents an entire word. Various languages are based upon logograms, such as Chinese, Japanese, Korean, ancient Egyptian, etc. These languages stand in contrast to other writing systems, such as the English writing system that is

based upon an alphabet, where each symbol (letter) represents a sound or a combination of sounds. In English, a plurality of symbols (letters) must be strung together in order to form a word. In contrast, in Chinese for example, an entire word can be written with a single symbol, referred to as a logogram. The English language contains 26 symbols, or letters known as the alphabet. All of the words in the English alphabet are formed by combining these 26 symbols in various combinations. In contrast, the Chinese language is comprised of over 80,000 logograms.

The presently claimed invention is directed toward a system for computer recognition of logograms. Bellegarda, in contrast, is directed toward a computer system for recognition of words comprised of a string of alphanumeric symbols. Bellegarda does not disclose any system for the recognition of logograms, as recited by applicant. Logograms, as discussed above, are fundamentally different from words formed with an alphabet. The present claims recite receiving an input handwriting signal representing a portion of the object logogram. Bellegarda, which is directed toward strings of alphanumeric symbols used to form words, provides no disclosure about selecting a logogram based upon a handwritten portion of a logogram, as recited by applicant. Further, Bellagarda does not disclose displaying an array of logograms as recited by applicants.

Thus, for all of the foregoing reasons, Bellagarda does not disclose all elements of applicants' claimed invention, and therefore is not a proper basis for a §102(e) rejection thereof. Nor is there any disclosure or teaching in Bellagarda that would have suggested applicants' claimed invention to one of ordinary skill in this art. Thus reconsideration and withdrawal of this rejection, and allowance of all claims 1, 2, 4-12, and 14-20 is respectfully requested.

Van Kleeck, which discloses a system for defining a set of radicals to be used in a Kanji character handwriting recognition system and automatically creating a dictionary of the Kanji characters that are recognized by the system, does not disclose what is missing in Bellagarda. Van Kleeck, while directed to a language system for logograms, does not disclose the use of voice recognition of logograms, nor does it disclose the display of an array of possible logograms that are possible candidates for selection by means of a handwritten input, as recited by applicant.

Thus, for the above cited reasons, Bellagarda and Van Kleeck fail to disclose all of the elements recited in applicants' claimed invention, thereby failing to make applicants' invention a predictable use of prior art elements. Further, Bellagarda and Van Kleeck fail to provide a basis

to establish obviousness under additional rationales, including simple substitution for one known element for another to obtain predictable results, use of known technique to improve similar devise in the same way, applying a known technique to a known device ready for improvement to yield predictable results, obvious to try, and the presence of a teaching, motivation, or suggestion. Thus, reconsideration and withdrawal from this rejection, and allowance of claims 3 and 13 is respectfully requested.

CONCLUSION:

All matters having been addressed and in view of the foregoing, Applicants respectfully request the entry of this paper, the Examiner's reconsideration of this application, and the immediate allowance of all pending claims.

Applicant submits that the entry of this Amendment is proper under 37 C.F.R. §1.116, as the claim changes: (a) place the application in condition for allowance for the reasons discussed herein; (b) do not require any further consideration as the claim changes employ limitations from originally-filed dependent claims that should have already been searched; and (c) places the application in better form for an Appeal, should an Appeal be necessary.

Applicants' representative remains ready to assist the Examiner in any way to facilitate and expedite the prosecution of this matter. If any point remains in issue which the Examiner feels may be best resolved through a personal or telephone interview, please contact the undersigned at the telephone number listed below.

Please charge any fees associated with the submission of this paper to Deposit Account Number 033975 (Ref. No. 522137-0000085). The Commissioner for Patents is also authorized to credit any over payments to the above-referenced Deposit Account.

Respectfully submitted,



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